

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney/Agent
AR762-XXASerial Number
09/920,017Applicant
HAMILTON et al.Filing Date
August 2, 2001Group Art Unit
1614

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA	5,898,029	04/27/99	Lyons et al.		04/12/94
	AB	5,874,449	02/23/99	Hamilton et al.		12/31/96
	AC	5,859,031	01/12/99	Hamilton et al.		05/21/96
	AD	5,846,981	12/08/98	Steiner et al.		01/23/97
	AE	5,846,979	12/08/98	Hamilton et al.		02/28/97
	AF	5,843,960	12/01/98	Steiner et al.		01/23/97
	AG	5,801,197	09/01/98	Steiner et al.		05/13/96
	AH	5,801,187	09/01/98	Li et al.		09/25/96
	AI	5,798,355	08/25/99	Steiner et al.		06/07/95
	AJ	5,795,908	08/18/98	Hamilton et al.		01/23/97
	AK	5,786,378	07/28/98	Hamilton et al.		09/25/96
	AL	5,780,484	07/14/98	Zelle et al.		11/13/96
	AM	5,744,485	04/28/98	Zelle et al.		01/23/95
	AN	5,665,774	09/09/97	Armistead et al.		03/08/93
	AO	5,629,325	05/13/97	Lin et al.		06/06/96
	AP	5,536,737	07/16/96	Kobayashi et al.		11/17/93
	AQ	5,348,944	09/20/94	Gold et al.		04/04/88
	AR	5,128,483	07/07/92	Trybulski et al.		05/08/91
	AS	4,808,573	02/28/89	Gold et al.		03/23/87
	AT	4,766,110	08/23/88	Ryan et al.		10/31/86
	AU	4,431,644	02/14/84	Smith et al.		03/08/82
	AV	4,374,829	02/22/83	Harris et al.		02/17/81

CC/cursory review as submitted

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub-Class	Translation
AW WO 99/10340	03/04/99				Yes
AX WO 97/49695	12/31/97				Yes

Examiner

Date Considered

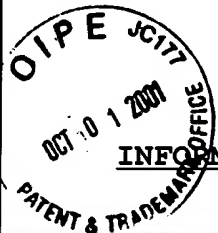
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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation
	BA	WO 97/48681	12/24/97				Yes
	BB	WO 97/20554	12/06/97				Yes
	BC	WO 96/06846	03/07/96				Yes
	BD	WO 94/12474	06/09/94				No
	BE	EP 488 258	06/03/92				Yes
	BF	EP 180 544	05/07/86				No
	BG	DE 3636278	10/24/86				No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CC/cursory review as submitted	BH	Gudasheva, T.A. et al., "Synthesis and anti-amnesic activity of a series of N-acylprolyl-containing dipeptides," <u>Eur. J. Med. Chem.</u> , 31 (1996), 151-7.
	BI	Waldmann, H., "Proline Benzyl Ester as Chiral Auxiliary in Barbier-Type Reactions in Aqueous Solution," <u>Synlett</u> , 1990, 627-8.
	BJ	Munegumi, T. et al., "Diastereoselective Catalytic Hydrogenation of N ^α -Pyruvoyl-(S)-prolinamide," <u>Bull. Chem. Soc. Jpn.</u> , 63 (1990)1832-34.
	BK	Hausler, J. et al., "Hydroxylsubstituierung Cyclodipeptide Durch Ringschluss Von Pyruvoylaminosaure-amiden," <u>Chem. Ber.</u> , 107 (1974) 2804-15.
	BL	Steglich, W. et al., "Eine rationelle Synthese von N-Trifluoroacetylaminosauren," <u>Synthesis</u> , (1976) 399-401.

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Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA						
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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation
	AJ	WO 9962881	12/09/99	PCT			Yes
	AK	PCT/US99/28663	11/24/00	PCT/ISA/220			Yes
	AJ	PCT/US99/28663	12/12/00	PCT IPEA/408			Yes
	AM						
	AN						
	AO						
	AP						

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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FOREIGN PATENT DOCUMENTS

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	AW	WO 99/45006	09/10/98	PCT			Yes
	AX						

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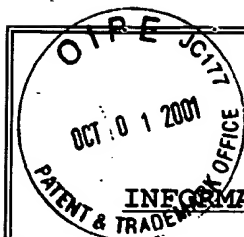
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Applicant

HAMILTON et al.

Filing Date

August 2, 2001

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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA	5,646,167	7/8/97	MacPherson et al.			6/7/95
	AB	5,840,736	11/24/98	VERTEX			
	AC	5,811,434	09/22/98	VERTEX			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation
	AD	WO 98/29117	09/07/98	PCT			Yes
	AE	WO 98/24805	11/06/98	PCT			Yes
	AF	WO 98/22432	28/05/98	PCT			No
	AG	WO 98/20893	22/05/98	PCT			Yes
	AH	WO 98/20892	22/05/98	PCT			Yes
	AI	WO 98/20891	22/05/98	PCT			Yes
	AJ	WO 98/13343	02/04/98	PCT			Yes
	AK	WO 98/08827	05/03/98	PCT			Yes
	AL	WO 97/38008	16/10/97	PCT			Yes
	AM	WO 97/36869	09/10/97	PCT			Yes
	AN	WO 97/31898	04/09/97	PCT			Yes
	AO	WO 97/23458	03/07/97	PCT			Yes
	AP	WO 97/23202	03/07/97	PCT			Yes
	AQ	WO 96/41609	27/12/96	PCT			Yes
	AR	WO 96/40140	19/12/96	PCT			Yes
	AS	WO 96/36630	21/11/96	PCT			Yes
	AT	WO 96/20949	11/07/96	PCT			Yes
	AU	WO 96/20725	11/07/96	PCT			Yes
	AV	WO 96/17816	13/06/96	PCT			Yes
	AW	WO 96/15101	23/05/96	PCT			Yes
	AX	WO 95/35367	28/12/95	PCT			Yes
	AY	WO 95/35308	28/12/95	PCT			Yes
	AZ	WO 95/34303	21/12/95	PCT			Yes

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OIPE JC177 OCT 01 2001 PATENT & TRADEMARK OFFICE	FORM PTO-1449		Attorney Docket AR762-XXA	Serial Number 09/920,017
	Applicant HAMILTON et al.			
	Filing Date August 2, 2001	Group Art Unit 1614		

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA	5,721,256	2/24/98	Hamilton et al.			2/12/97
	AB	5,717,092	2/10/98	Armistead et al.			3/29/96
	AC	5,714,510	2/3/98	Proctor			6/5/95
	AD	5,703,088	12/30/97	Sharpe et al.			6/4/92
	AE	5,696,135	12/9/97	Steiner et al.			5/28/96
	AF	5,654,332	8/5/97	Armistead et al.			6/8/95
	AG	5,620,971	4/15/97	Armistead et al.			3/25/94
	AH	5,614,547	3/25/97	Hamilton et al.			6/7/95
	AI	5,604,294	2/18/97	Luly et al.			3/14/94
	AJ	5,599,927	2/4/97	Or et al.			12/15/95
	AK	5,585,397	12/17/96	Tung et al.			3/17/94
	AL	5,543,423	8/6/96	Zelle et al.			1/23/95
	AM	5,541,192	7/30/96	Skotnicki et al.			5/24/95
	AN	5,541,189	7/30/96	Luly et al.			4/18/95
	AO	5,530,121	6/25/96	Kao et al.			5/25/95
	AP	5,527,907	6/18/96	Or et al.			10/26/94
	AQ	5,516,797	5/14/96	Armistead et al.			4/11/94
	AR	5,506,243	4/9/96	Ando et al.			4/28/94
	AS	5,504,197	4/2/96	Schubert et al.			3/22/93
	AT						
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FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub-Class	Translation
AV						Yes No

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Examiner <i>Ch</i>	Date Considered 12/5/02
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	Applicant HAMILTON et al.	
	Filing Date August 2, 2001	Group Art Unit 1614

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
	BA	5,472,687	12/5/95	Proctor		2/7/94
	BB	5,453,437	9/26/95	Schohe et al.		9/8/93
	BC	5,447,915	9/5/95	Schreiber et al.		2/21/91
	BD	5,359,138	10/25/94	Takeuchi et al.		6/29/92
	BE	5,342,942	8/30/94	Jaen et al.		3/29/93
	BF	5,330,993	7/19/94	Armistead et al.		7/2/91
	BG	5,321,009	6/14/94	Baeder et al.		11/14/91
	BH	5,294,603	3/15/94	Rinehart		2/18/92
	BI	5,232,923	8/3/93	Fukazawa et al.		4/22/91
	BJ	5,215,969	6/1/93	Springer et al.		12/9/91
	BK	5,214,034	5/25/93	Nakayama et al.		12/3/91
	BL	5,204,338	4/20/93	Baader et al.		5/10/91
	BM	5,192,773	3/9/93	Armistead et al.		7/2/90
	BN	5,166,317	11/24/92	Wallace et al.		10/31/88
	BO	5,147,877	9/15/92	Goulet		9/12/91
	BP	5,002,962	3/26/91	Loscalzo		6/15/88
	BQ	5,002,963	3/26/91	De Luca et al.		6/1/88
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FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub-Class	Trans-lation
BU					Yes No

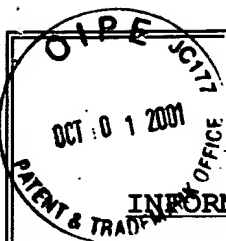
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
CC/cursory review as submitted	CA	4,818,749	4/4/89	Gold et al.	/		11/4/87
	CB	4,745,124	5/17/88	Ryan et al.			7/20/83
	CC	4,734,420	3/29/88	Ryan et al.			5/2/80
	CD	4,692,458	9/8/87	Ryan et al.			3/5/80
	CE	4,472,380	9/18/84	Harris et al.			9/27/82
	CF						
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	CJ						
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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation
	CL						Yes No
	CM						Yes No
	CN						Yes No
	CO						Yes No
	CP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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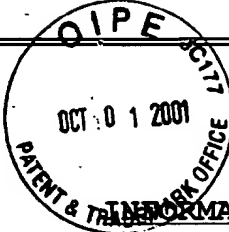
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		Document Number	Date	Country	Class	Sub-Class	Translation
	BA	WO 95/12572	11/05/95	PCT			Yes
	BB	WO 95/12398	11/05/95	PCT			Yes
	BC	WO 95/02684	26/01/95	PCT			Yes
	BD	WO 94/15900	21/07/94	PCT			Yes
	BE	WO 94/14428	07/07/94	PCT			Yes
	BF	WO 94/13629	23/06/94	PCT			Yes
	BG	WO 94/07858	14/04/94	PCT			Yes
	BH	WO 94/04129	03/03/94	PCT			Yes
	BI	WO 94/03476	17/02/94	PCT			Yes
	BJ	WO 93/18736	30/09/93	PCT			Yes
	BK	WO 93/14762	05/08/93	PCT			Yes
	BL	WO 93/14072	22/07/93	PCT			Yes
	BM	WO 93/13066	08/07/93	PCT			Yes
	BN	WO 92/21313	10/12/92	PCT			Yes
	BO	WO 92/19745	12/11/92	PCT			Yes
	BP	WO 92/19593	12/11/92	PCT			Yes
	BQ	WO 92/11850	23/07/92	PCT			Yes
	BR	WO 92/11245	09/07/92	PCT			Yes
	BS	WO 92/04370	19/03/92	PCT			Yes
	BT	WO 91/13088	05/09/91	PCT			Yes
	BU	WO 91/04985	18/04/91	PCT			Yes
	BV	WO 89/06234	13/07/89	PCT			Yes
	BW	WO 88/09789	15/12/88	PCT			Yes
	BX	WO 88/00040	14/01/88	PCT			Yes
	BY	WO 85/04577	24/10/85	PCT			Yes
	BZ	EP 823419	11/02/98	EP			Yes
	BAA	EP 652229	10/05/95	EP			Yes
	BAB	EP 610744	13/10/93	EP			Yes
	BAC	EP 519819	23/12/92	EP			No

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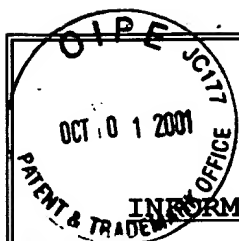


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	CA	EP 494005	08/07/92	EP			No
	CB	EP 471135	19/02/92	EP			Yes
	CC	EP 468339	29/01/92	EP			Yes
	CD	EP 476933	25/03/92	EP			Yes
	CE	EP 443983	28/08/91	EP			No
	CF	EP 405994	02/01/91	EP			Yes
	CG	EP 378318	18/07/90	EP			Yes
	CH	EP 352000	24/01/90	EP			Yes
	CI	EP 333174	20/09/89	EP			Yes
	CJ	EP 196841	08/10/86	EP			Yes
	CK	EP 088350	14/09/83	EP			Yes
	CL	EP 073143	02/03/83	EP			Yes
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	CN	EP 048159	24/03/82	EP			Yes
	CO	EP 012401	25/06/80	EP			Yes
	CP	DE 4425950	25/01/96	DE			No
	CQ	DE 4015255	14/11/91	DE			No
	CR	DE 3508251	11/09/86	DE			No
	CS	GB 2247456	04/03/92	GB			Yes
	CT	JP 05-194235		JP			No
	CU	JP 05-178824		JP			No
	CV	ZA 9207782	09/10/92	ZA			Yes

CC/cursory review as submitted

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

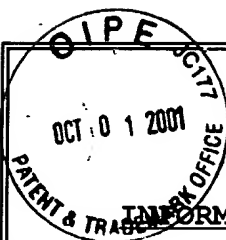
	CW	Andrus, Merrit B., "Structure-based design of an acyclic ligand that bridges FKBP 12 and calcineurin," J. Am. Chem. Soc., 1993, 115(2), 10420-21.

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CC/cursory review as submitted	DA	Armistead, D.M. et al., "Design, synthesis and structure of non-macrocyclic inhibitors of FKBP12, the major binding protein for the immunosuppressant FK506," <u>Acta Crystallogr.</u> , 1995, D51(4), 522-8.
	DB	Askin, D. et al., "Chemistry of FK-506: benzilic acid rearrangement of the tricarboxyl system," <u>Tetrahedron Lett.</u> , 1989, 30(6), 671-74.
	DC	Baader, Ekkehard et al., "Inhibition of prolyl 4-hydroxylase by oxalyl amino acid derivatives in vitro, in isolated microsomes and in embryonic chicken tissues," <u>Biochem. J.</u> , 1994, 300(2), 525-30.
	DD	Baumann, K. et al., "Synthesis and oxidative cleavage of the major equilibrium products of ascomycin and FK506," <u>Tetrahedron Lett.</u> , 1995, 26(13), 2231-34.
	DE	Bender, D. et al., "Periodate Oxidation of α -Keto γ -Lactams. Enol Oxidation and β -Lactam Formation Mechanism of Periodate Hydroxylation Reactions," <u>J. Org. Chem.</u> , 1978, 43, 3354-62.
	DF	Birkenshaw, T. et al., "Synthetic FKBP12 Ligands Design and Synthesis of Pyranose Replacements," <u>Bioorg. Med. Chem. Lett.</u> , 1994, 4, 2501-06.
	DG	Boulmedais, A. et al., "Stereochemie de la reduction electrochimique d'acetoamides optiquement actives Electroreduction de benzoylformamides derives de la S(-)-proline," <u>Bull. Soc. Chim. Fr.</u> , 1988, 185-91.
	DH	Bycroft, B. et al., "Efficient Asymmetric Synthesis of α -Amino Acids from α -Keto Acids and Ammonia with Conservation of the Chiral Reagent," <u>J.C.S. Chem. Comm.</u> , 1975, 988-89.
	DI	Caffrey, M. et al., "Synthesis and Evaluation of Dual Domain Macrocyclic FKBP12 Ligands," <u>Bioorg. Med. Chem. Lett.</u> , 1994, 4, 2507-10.
	DJ	Cai, D. and Still, W.C., "Synthesis of the α , β -Diketo Amide Segment of the Novel Immunosuppressant FK506," <u>J. Org. Chem.</u> , 1988, 53, 4643-44.

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EA

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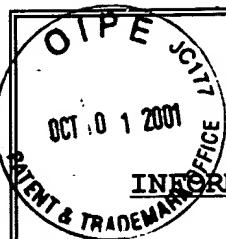
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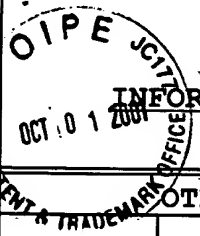
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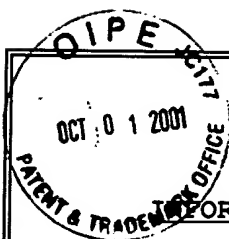
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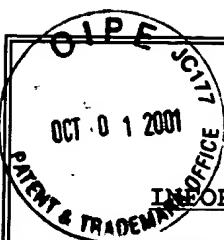
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Attorney Docket
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1614

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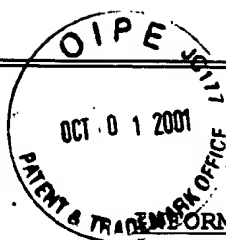
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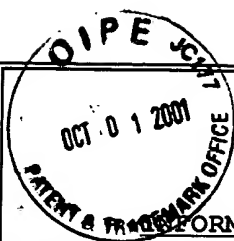
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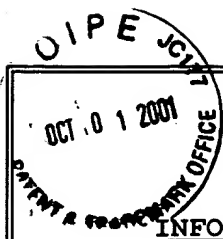
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	APPLICANT: Gregory S. HAMILTON et al.	
	FILING DATE: August 2, 2001	GROUP: 1614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						

FOREIGN PATENT DOCUMENTS								
EXAMINER INIT		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	AI	WO 94/07858 A	9/27/93				Yes	
	AJ	EP 564 924	10/13/93				Yes	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	
AK	Australian Patent Office Search Report
AL	Chemical Abstracts Registry Number 76391-12-3
AM	Chemical Abstracts Registry Number 83079-95-2
AN	Chemical Abstracts Registry Number 83079-96-3
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AP	T. Kitazaki et al., "Synthesis and Human Immunodeficiency Virus (HIV-1) Protease Inhibitory Activity of Tripeptide Analogues Containing a Dioxoethylene Moiety", Chem. Pharm. Bull., 1994, Vol. 42, pp. 2636-2460.

DC-11202.1

EXAMINER: Not yet assigned	DATE CONSIDERED: 12/5/02
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